

# AGILAN R

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## Objective

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To secure a challenging position in a reputable organization to expand my learnings, knowledge, and that would provide Competitive work environment where my potential skills can be used to the fullest.

## Work Experience

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### **Designtech Systems Ltd Pune:-Design Engineer (Sep'18-Present)** **(Deputed to Mahindra research valley-Chennai)** **Working in Power Train Department-Engines (Farm Division)**

- Design & development of engine casting components with reliability & durability
- Design of components with load data and real field conditions
- Good knowledge in GD&T and Stack up Analysis
- Hands on experience in Unigraphics, Assembly & Drafting
- Hands on experience in PLM –Team centre, design release & BOM (Eng. & Mfg.)
- Exposure to manufacturing process like, casting, aluminium PDC/GDC ,Press & Fabrication

### **Projects:**

#### **Design & development of light weight tractor engine for a Japanese OEM**

#### **My work includes:**

- Design & Development of 4 cylinder -70 HP crankcase Modelling and Drafting
- Detailed components and system level benchmarking of engines
- Engine oil volume calculation and oil pan tilt study
- Design changes based on CAE report and COE recommendations
- Engine architectural & component layout understanding
- 1 D worst case analysis and RSS calculation for system wise engine assembly
- Sound knowledge of layout packaging and design
- Interacting with supplier for feasible manufacturing of component development

### **Kasturi Industrial Engineering: - Production In charge (Apr'16 - May'17)**

My work includes production planning, process scheduling, stage drawing preparation, PPAP Performance reporting of machines and operators, inventory reporting, 5S maintenance, Solving manufacturing problems with other departments, recommendations based on prototype test results

## Project work

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### **Design and Analysis on Wheel Rim (Jan - May'15)**

Designed a new model of wheel rim with standard rim size of car in Autodesk inventor and did the static and explicit dynamic analysis to find the rigidity, strength, stress and total deformation on various loads in ANSYS Workbench with different alloy material

### **Design and Fabrication of Power Generation by Speed Breaker (Jun - Dec'13)**

The principle involved is potential energy to electrical energy conversion. Designed & fabricated a rack and pinion mechanism was used to convert linear motion to circular motion and dynamo is coupled with shaft to get electrical energy

## Internships

### **Johnson Controls Automotive Ltd, Chennai. (Sep – Nov '14)**

Done a VA/VE idea generation for Seat Commodity in close association with Purchasing, I was driving the entire project from start till the end. Many cost reduction ideas contributed much profitability to the company.

### **Samco Metals and Alloy Pvt. Ltd, Vellore.(June'13)**

Learned about sand casting process start from core, cavity making to molten metal pouring and their various quality testing method like NDT and powdering, magnetic crack checking of castings& also worked closely with manufacturing experts in the Organization.

## Education

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Course	Institute	Board/ University	Year of Passing	Percentage / CGPA
<b>Post Graduate Diploma In Tool Design &amp; CAD/CAM (NSQF LEVEL-8)</b>	Indo German Tool Room Aurangabad	Indo German Tool Room Aurangabad	2018	75.0
<b>B.E. (Mechanical)</b>	GTEC Vellore	Anna University Chennai	2015	7.54 CGPA
Higher Secondary	State board	N.K.M Higher secondary school	2011	73.58
SSLC	State board	N.K.M Higher secondary school	2009	83.6

## Accomplishments & Activities

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- Completed GD&T course in Indo German Tool Room, Aurangabad
- Completed EV 1.0x :ELECTRIC VEHICLE (Future mobility) in DIY GURU
- Completed Fundamentals of manufacturing processes in MIT through Edx
- Completed Basic Spanish 1:Getting started course through Edx
- Presented a Paper about “Alternative power source on vehicle” in CAHCET Vellore
- Participated in Rotary youth leadership award camp organized by Rotary club Vellore
- Active participant of NSS and Active blood donor

## Skill Sets

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**Software:**Creo,UG-Nx, Catia, ANSYS, Microsoft excel

**Language:** Tamil, English, Hindi\*, Spanish\*  
\*learning

## Personal Information

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Hobbies:	Reading Quora, Listening songs &Reading books
Father's Name:	Ravi P
Father's Occupation:	Ex-serviceman
Mother's Name:	Lakshmi R (Home maker)
Brother's Name:	Ajay R

Place: CHENNAI  
Date:

Sincerely  
(Agilan R)